

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: M97736
Date Received: 12/22/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
Matrix: Water
Units: ug/L (ppb)

Client: Alaskan Copper Works
Project: Metro Self Monitor, PO# M97736
Lab ID: 512238-01 10x
Data File: 512238-01 10x.034
Instrument: ICPMS1
Operator: btb

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	120	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	263
Nickel	245
Copper	297
Zinc	46.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	Metro Self Monitor, PO# M97736
Date Extracted:	12/27/05	Lab ID:	I5-350 mb
Date Analyzed:	12/28/05	Data File:	I5-350 mb.008
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower	Upper
Germanium	104	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/L (ppb)
Chromium	<10
Nickel	<10
Copper	<10
Zinc	<20

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS**

Date of Report: 01/03/06

Date Received: 12/22/05

Project: Metro Self Monitor, PO# M97736, F&BI 512238

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR METALS BY EPA METHOD 200.8**

Laboratory Code: 512246-06 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	<10	<10	nm	0-20
Nickel	ug/L (ppb)	<10	<10	nm	0-20
Copper	ug/L (ppb)	<10	<10	nm	0-20
Zinc	ug/L (ppb)	<20	<20	nm	0-20

Laboratory Code: 512246-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	<10	98	50-150
Nickel	ug/L (ppb)	20	<10	94	50-150
Copper	ug/L (ppb)	20	<10	90	50-150
Zinc	ug/L (ppb)	50	<20	97	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	91	70-130
Nickel	ug/L (ppb)	20	111	70-130
Copper	ug/L (ppb)	20	104	70-130
Zinc	ug/L (ppb)	50	95	70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
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January 3, 2006

DUPLICATE COPY

INVOICE # 06ACU0103-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M97736, F&BI 512238 - Results of testing
requested by Gerry Thompson for material submitted on December 22, 2005.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc
by Method 200.8 @ \$80 per sample \$ 80.00

Amount Due \$ 80.00

FEDERAL TAX ID # (b) (6)

512238

SAMPLE CHAIN OF CUSTODY

12-22-05 ME DO1

Send Report To Geno ThompsonCompany Alaska Copper worksAddress 628 Harbor StCity, State, ZIP Seattle WAPhone # 206-382-8329 Fax #

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME/NO. <u>Metro Self monitor</u>	PO # <u>M97736</u>
REMARKS	

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes		
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS							
M97736	01	12/22	10:30	H2O	1								Major nit, 2					

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

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FORMS\COG\COG.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Geno Thompson</u>	<u>ACW</u>	<u>12/22/05</u>	<u>11:45 AM</u>
Received by: <u>Stacey Webber</u>	<u>Stacey Webber</u>	<u>J&B/I</u>	<u>12/22/05</u>	<u>1:00 PM</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

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January 3, 2006

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 22, 2005 from the Metro Self Monitor, PO# M97736, F&BI 512238 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0103R.DOC